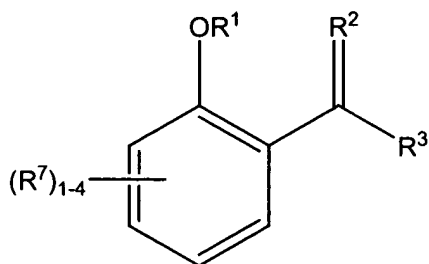


Claims

1. A composition for the treatment of an animal afflicted with onychomycosis, the composition comprising:



(I)

Where R¹ is hydrogen, alkyl, hetero, heteroalkyl, aryl or heteroaryl;

R³ is hydroxy, alkyl, hetero, heteroalkyl, aryl or heteroaryl;

R² is hetero;

each R⁷ is independently hydrogen, alkyl, hetero, heteroalkyl, aryl or heteroaryl and ;

a copper composition;

a peroxide;

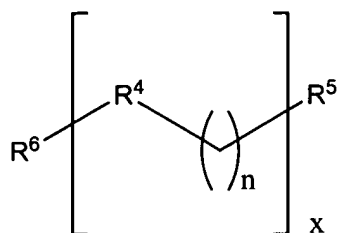
a polyhydroxy aromatic compound;

a transition metal coordination composition;

all admixed in a hydrophyllic carrier composition.

2. The composition according to claim 1 wherein R² is oxygen.
3. The composition according to claim 2 wherein the copper composition is a copper complex.
4. The composition according to claim 3 wherein the copper complex is a diamine polymer-copper complex.

5. The composition according to claim 1 wherein the coordination composition is a Co chelate or complex.
6. The composition according to claim 1 wherein the coordination composition is a Zn chelate or complex.
7. The composition according to claim 1 wherein the coordination composition is a Fe chelate or complex.
8. The composition according to claim 1 wherein the polyhydroxy aromatic compound is a 1,2,4,5-tetra hydroxy benzene.
9. The composition according to claim 1 wherein the peroxide is an organic peroxide.
10. The composition according to claim 1 wherein the peroxide is an inorganic peroxide.
11. The composition according to claim 1 wherein the peroxide is hydrogen peroxide.
12. The composition according to claim 1 wherein the hydrophilic carrier is between about 50% to about 99% by weight water.
13. The composition according to claim 1 wherein the hydrophilic carrier is between about 1% to about 50% a compound according to formula II



wherein R⁴ is a heteroatom, R⁵ is a heteroalkyl or heteroatom-H and R⁶ is -

CH₃, alkylaryl, aryl or heteroaryl and n and x are independently between 1 and 20.

14. The composition according to claim 1 wherein the hydrophylic carrier is between about 0.1% to about 30% by weight alcohol.

15. A pharmaceutical composition for the topical treatment of onychomycosis comprising a composition according to claim 1 and a pharmaceutically acceptable carrier.

16. A method for the treatment of white line disease comprising:

applying to an afflicted area the whiteline treating composition according to claim 1.

17. the method according to claim 16 further comprising cleaning of the afflicted area prior to application of the whiteline treating composition.

18. The method according to claim 17 wherein cleaning of the afflicted area consists essentially of debriding.

19. A method of preventing whiteline disease comprising the steps of:

a) applying to a site in need of treatment a suitable amount of a whiteline treating composition according to claim 1;

- b) applying to the site a barrier composition.

20. The method according to claim 19 wherein the barrier composition is a barrier to water.

21. The method according to claim 19 wherein the barrier composition is a barrier to oxygen.

22. The method according to claim 19 further comprising cleaning the site prior to application of the whiteline treating composition.

23. The method according to claim 22 wherein the cleaning of the site comprises the steps of:

- i) applying a cleaning composition to the afflicted area;
- ii) causing at least a partial removal of the afflicted tissue.

24. The method according to claim 23 wherein steps I and ii are repeated.

25. The method according to claim 23 wherein the cleaning composition is a surfactant.

26. The method according to claim 23 wherein the cleaning composition contains an enzymatic composition.